

इंटरनेट

मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 12352 (1988): Fuel injection pumps mounting bolts [TED
2: Automotive Primemovers]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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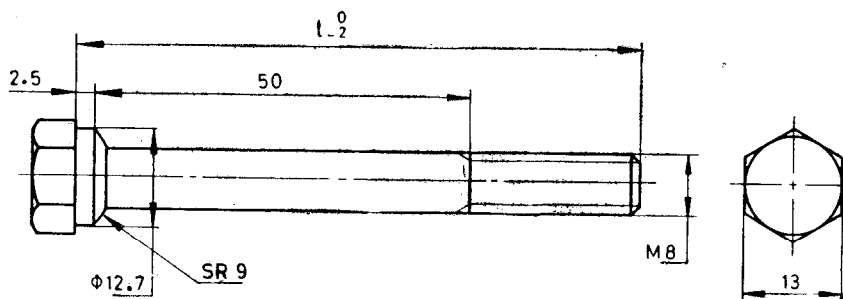
(Reaffirmed 1999)

Indian Standard

SPECIFICATION FOR FUEL INJECTION PUMP MOUNTING BOLTS

1. Scope — Specifies general and dimensional requirements of spherical seating bolts for in-line, lug mounted, fuel injection pumps.

2. Dimensions — Shall be as shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 DIMENSIONS OF SPHERICAL SEATING BOLT

2.1 Dimensional tolerances not specified shall be in accordance with IS : 1364 (Part 1)-1983 'Specification for hexagon head bolts, screws and nuts of product grades A and B : Part 1 Hexagon head bolts (size range M3 to M36) (second revision)'.

3. Mechanical Properties — Shall be of property class 8.8 in accordance with IS : 1367 (Part 3)-1979 'Technical supply conditions for threaded steel fasteners: Part 3 Mechanical properties and test methods for bolts, screws and studs with full loadability (second revision)'.

4. Manufacture — Bolts shall be quenched and tempered in accordance with the manufacturer's recommendation to achieve the property class of 8.8 [see IS : 1367 (Part 3)-1979].

5. Workmanship — Bolts shall be well formed and free from cracks, burrs, etc.

6. Surface Treatment — Finished bolts shall be galvanized or phosphated. The hot dip galvanizing shall be in accordance with IS : 1367 (Part 13)-1983 'Technical supply conditions for threaded steel fasteners : Part 13 Hot dip galvanizing on threaded fasteners'.

6.1 When phosphated, the coating shall be in accordance with IS : 1367 (Part 12)-1981 'Technical supply conditions for threaded steel fasteners: Part 12 Phosphate coatings on threaded fasteners (second revision)'.

7. Designation — Shall be, unless otherwise stated, as specified in IS : 1367 (Part 16)-1979 'Technical supply conditions for threaded steel fasteners : Part 16 Designation system and symbols (second revision)'.

8. Marking — Each bolt shall be marked with trade-mark or manufacturer's name, property class, etc.

8.1 Standard Marking — Details available with the Bureau of Indian Standards.

9. Packing — Shall be in accordance with the best prevalent trade practice.

10. Sampling — Shall be in accordance with IS : 2614-1969 'Methods for sampling of fasteners (first revision)'.

Adopted 15 April 1988

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EXPLANATORY NOTE

The mounting bolts play an important part in the proper fixing of fuel injection pumps on the cylinder head of an engine. Bolts having 120° chamfer are also being used by the industry. However, for better alignment, bolts with spherical seating are preferred. In this standard, only spherical seating bolts are covered. Chamfered bolts would be included after gaining sufficient experience in their use.